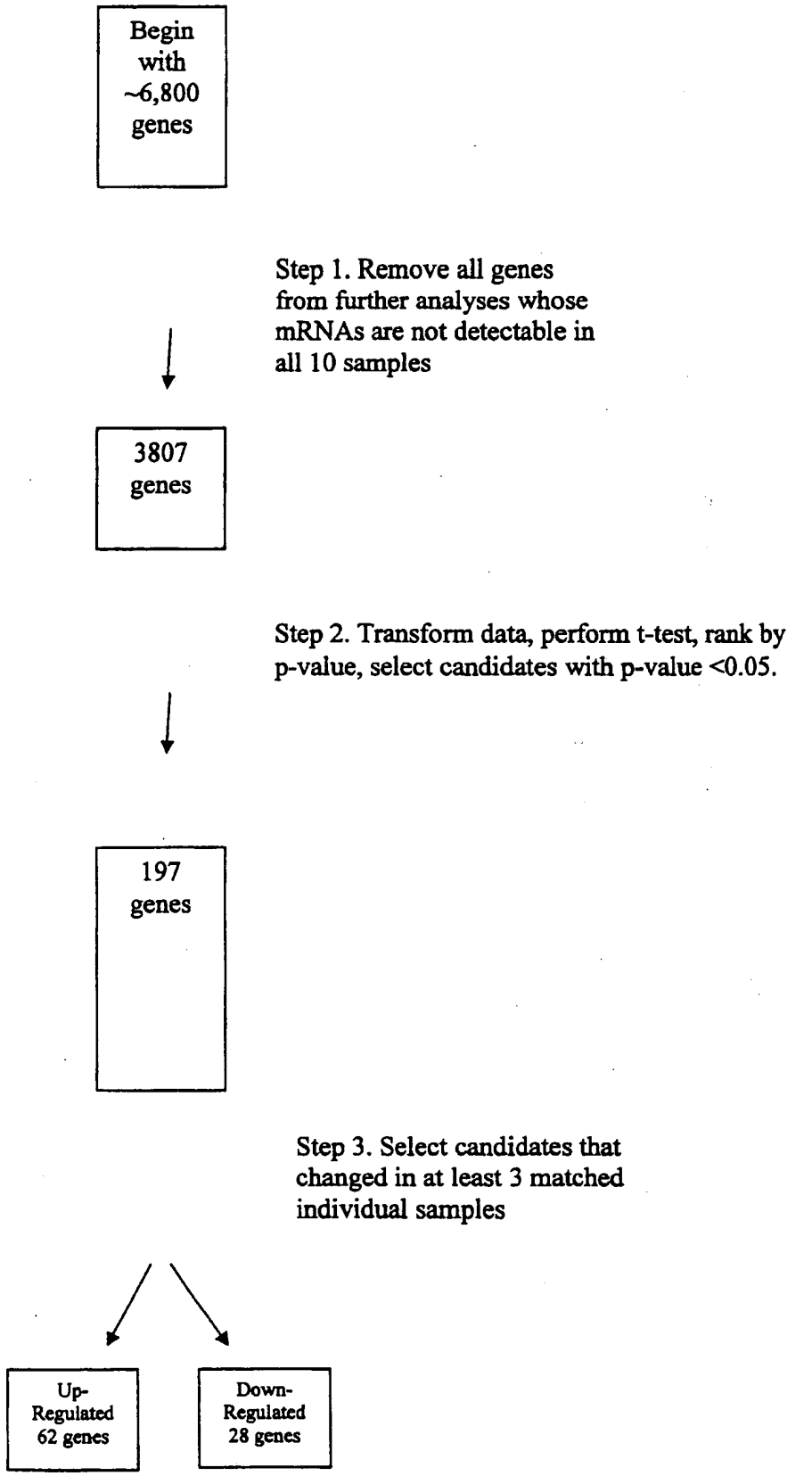
Begin with ~6,800 genes
Step 1. Remove all genes from further analyses whose mRNAs are not detectable in all 10 samples
3807 genes
Step 2. Transform data, perform t-test, rank by p-value, select candidates with p-value <0.05.
197 genes
Step 3. Select candidates that changed in at least 3 matched individual samples
Up-Regulated 62 genes
Down-Regulated 28 genes

FIGURE 1

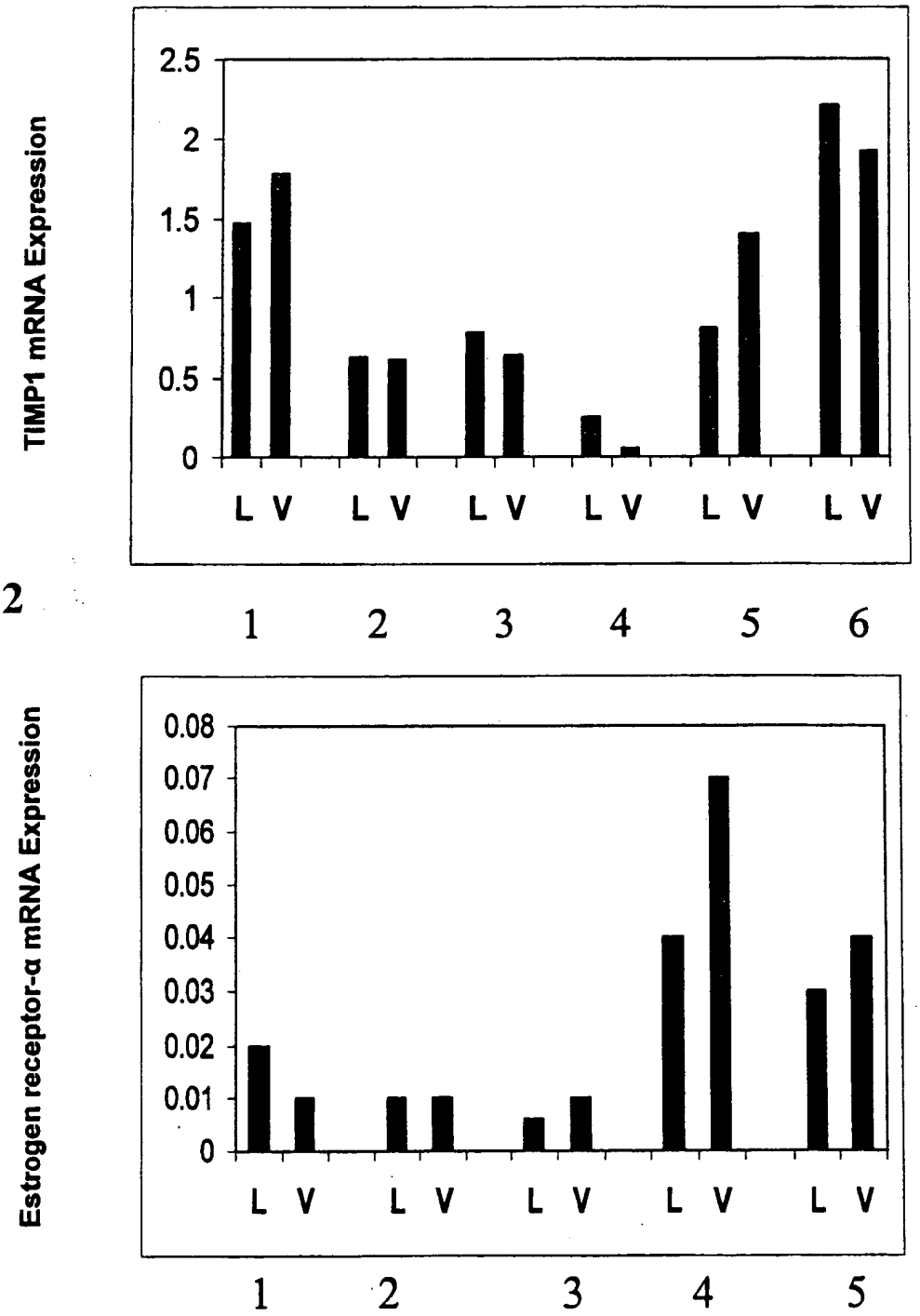
TIMP1 mRNA Expression
2.5
2
1.5
1
0.5
0
L V L V L V L V L V L V
1 2 3 4 5 6
Estrogen receptor-α mRNA Expression
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
L V L V L V L V L V
1 2 3 4 5

FIGURE 2

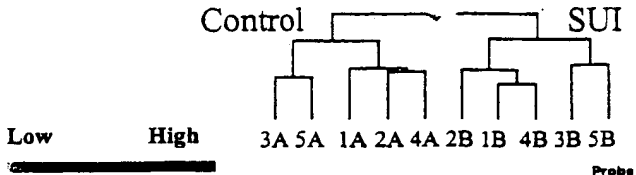

FIGURE 3

Probe set	Gene	P	Avg FC
M60254	peptidylprolyl isomerase F (cyclophilin F)	0.02358	3.1
M62982	arachidonate 12-lipoxygenase	0.03810	2.7
Y10032	serum/glucocorticoid regulated kinase	0.01507	2.5
L76465	hydroxyprostaglandin dehydrogenase 15-(NAD)	0.03121	1.6
X52882	I-complex 1	0.03222	1.4
L34155	laminin, alpha 3	0.02492	1.5
D86971	KIAA0217 protein	0.01872	1.4
D10522	myristoylated alanine-rich protein kinase C substrate	0.04773	1.2
M91659	collagen, type XVII, alpha 1	0.03198	1.6
M86400	tyrosine 3-monooxygenase	0.01924	1.6
AB002382	catenin (cadherin-associated protein)	0.03999	1.5
X59770	type II interleukin-1 receptor, (cell line CB23)	0.00470	2.5
D84109	transducer of ERBB2, 2	0.02597	1.5
U90902	Human clone 23612 mRNA sequence	0.00296	1.4
X74801	chaperonin containing TCP1, subunit 3 (gamma)	0.00586	1.3
X94754	methionine-tRNA synthetase	0.04345	1.3
U16660	enoyl Coenzyme A hydratase 1, peroxisomal	0.01058	1.4
X03484	v-raf-1 murine leukemia viral oncogene homolog 1	0.04554	1.4
D31888	REST corepressor	0.00620	1.6
U07806	topoisomerase (DNA) I	0.01933	1.7
M86752	stress-induced-phosphoprotein 1	0.02802	1.6
D13748	eukaryotic translation initiation factor 4A	0.02928	1.5
M84526	D component of complement (adipsin)	0.02513	1.6
U28386	karyopherin alpha 2	0.02849	1.5
U40714	tyrosyl-tRNA synthetase	0.03315	1.6
U88964	interferon stimulated gene (20kD)	0.03022	1.5
U41745	PDGFA associated protein 1	0.01296	1.6
M34344	Human platelet glycoprotein Ib (GPIb)	0.04948	1.4
U57911	chromosome 11 open reading frame 8	0.00508	2.5
D50930	KIAA0140 gene product	0.01958	1.9
M15353	eukaryotic translation initiation factor 4E	0.00707	1.5
L19161	eukaryotic translation initiation factor 2	0.03920	1.6
AC000061	Human BAC clone	0.00460	1.9
D84142	H1 histone family, member X	0.00173	1.5
U16300	damage-specific DNA binding protein 2 (48kD)	0.01996	1.3
X82895	membrane protein, palmitoylated 2	0.03267	1.4
U56417	1-acylglycerol-3-phosphate O-acyltransferase 1	0.01957	1.4
X73478	protein phosphatase 2A, regulatory subunit B' (PR 53)	0.02267	1.4
U90915	cytochrome c oxidase subunit IV isoform 1;	0.02579	1.3
U76010	solute carrier family 30 (zinc transporter), member 3	0.00433	1.4
M22490	bone morphogenetic protein 4	0.01092	1.4
X65962	H.sapiens mRNA for cytochrome P-450	0.04699	2.5
D42108	phospholipase C-like 1	0.01651	2.3
X81970	proteasome (prosome, macropain) subunit	0.00477	1.5
D00726	ferrochelatase (protoporphyria)	0.01191	1.6
Z18956	solute carrier family 8	0.01329	1.9
U66018	MAD	0.02584	1.5
HG2325-HT2421	Werner syndrome-1/type 4	0.03708	1.3
U66106	poly(A)-binding protein (PABP)	0.03264	1.3
D28476	thyroid hormone receptor interactor 12	0.03613	1.3
D26066	Williams-Beuren syndrome chromosome region 1	0.00153	1.4
L77730	A3 adenosine receptor (ADORA3)	0.01527	1.5
U37022	cyclin-dependent kinase 4 (CDK4)	0.03325	1.3
X80763	5-HT2c receptor	0.04036	1.3
M28713	NADH-cytochrome b5 reductase (b5R)	0.04906	1.4
D14659	KIAA0103 gene product	0.00453	1.4
U37139	integrin beta 3 binding protein	0.00499	1.8
L38951	karyopherin (importin) beta 1	0.01715	1.4
J00212	leukocyte interferon (ifn-alpha) alpha-f	0.01546	2.1
U21128	lumican	0.01998	2.7
Z11793	selenoprotein P, plasma, 1	0.00971	2.2
HG2810-HT2921	Decorin, Alt. Splice 1	0.04932	1.7
X85724	ORF1 and ORF2 from chromosome X	0.00131	2.6
U49957	LIM domain	0.01070	1.9
X03934	T-cell antigen receptor	0.03990	1.4
HG4272-HT4542	Homeotic Protein Pl2	0.02034	1.3
L43575	clone 48A8	0.02301	1.3
M96803	spectrin, beta, non-erythrocytic 1	0.03801	1.4
U97105	dihydropyrimidinase-like 2	0.03771	1.3
U52077	mariner1 transposase	0.03680	1.3
S81419	dystrophin	0.00547	1.3
U84011	amylo-1, 6-glucosidase, 4-alpha-glucanotransferase	0.00089	1.6
U87408	PTH-responsive osteosarcoma B1 protein	0.04826	1.4
L32832	AT-binding transcripton factor 1	0.00036	1.4
U90911	Human clone 23652	0.00530	1.4
U72511	repressor of estrogen receptor activity	0.04686	1.4
M73720	mast cell carboxypeptidase A (MC-CPA)	0.03110	1.9
J03241	transforming growth factor, beta 3	0.01629	1.7
D84110	RNA-binding protein gene with multiple splicing	0.01671	1.6
U11791	cyclin H	0.03966	1.5
HG1140-HT4817	histone H1x	0.02805	1.3
X57206	inositol 1,4,5-triephosphate 3-kinase B	0.04203	1.4
U80060	fasciculation and elongation protein zeta 1	0.02152	2.2
Y09308	protein kinase, Dyrk6,	0.03898	4.8
U94586	NADH dehydrogenase (ubiquinone)	0.01031	1.5
HG3431-HT3616	Hepatocyte Growth Factor Receptor	0.00112	1.5
D26129	KIAA0103	0.00594	1.6
J02874	fatty acid binding protein 4, adipocyte	0.01939	2.4
M36284	glycophorin C (Gerbich blood group)	0.01483	1.4
U80061	fasciculation and elongation protein zeta 2 (zygin II)	0.04455	1.4